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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/035,101
Filing Date	December 28, 2001
First Named Inventor	Terrence M. Rotter et al.
Art Unit	3747
Examiner Name	Kamen, N.
Attorney Docket Number	550270.91065

Sheet 1 of 8

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
K		US- 350,068	09-28-1886	C. Louque	
		US- 1,310,090	07-15-1919	H.R. Ricardo	
		US- 1,738,876	12-10-1929	H.J. Edwards et al.	
		US- 1,871,899	08-16-1932	C.O. Marshall	
		US- 4,407,169	10-04-1983	Menen	
		US- 4,440,123	04-03-1984	Tsai	
		US- 4,481,918	11-13-1984	Morton	
		US- 4,509,474	04-09-1985	Schmuck	
		US- 4,628,876	12-16-1986	Fujikawa et al.	
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		US- 4,781,156	11-01-1988	Berger et al.	
		US- 4,791,830	12-20-1988	Yamamoto et al.	
		US- 4,800,852	01-31-1989	Kandler	
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		US- 4,803,964	02-14-1989	Kurek et al.	
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		US- 5,588,407	12-31-1996	von Essen et al.	

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**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Country Code <sup>2</sup> Number <sup>2</sup> Kind Code <sup>3</sup> (if known)				
K		GB 249 693 A	04-01-1926	Herbert Austin		
		GB 749 864 A	06-06-1956	Whitworth & Co		
		JP 57-146938 A	09-10-1982	Triumph Motorcycles		
		JP 57-171139 A	10-21-1982	Paran Aaru Menen		
		JP 57-173636 A	10-26-1982	Sutzer AG		
		JP 58-161134 U	10-27-1983	Nissan Motor		

Examiner  
Signature

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Date  
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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 8

**Complete if Known**

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First Named Inventor	Terrence M. Rotter et al.
Art Unit	3747
Examiner Name	Kamen, N.
Attorney Docket Number	550270.91065

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
1X ↓ ✓		US- 1,141,189	06-01-1915	Horace M. Kauffman	
		US- 1,342,648	06-08-1920	Harry Ralph Ricardo	
		US- 1,410,019	03-21-1922	Albert F. Krause	
		US- 1,588,720	06-15-1926	Alva B. Gilbert	
		US- 3,468,190	09-23-1969	Achille C. Sampietro	
		US-			
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		Country Code <sup>2</sup> Number <sup>3</sup> Kind Code <sup>4</sup> (if known)				
K		DE 742 776	12-10-1943	Dr.-Ing. Frdrk Ljungstrom		
J		DE 2 408 729	09-26-1974	Nissan Motor Co., Ltd.		
J		GB 1 449 329	09-15-1976	Nissan Motor Co., Ltd.		
J	✓	DE 24 32 188	02-04-1975	Ateliers de la Motobecane		
J		DE 3 03 803 A1	04-22-1982	Volkswagenwerk AG		
J		DE 31 20 190 A1	06-05-1982	Volkswagenwerk AG		

Examiner Signature	Kamen	Date Considered	10/29/03
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Sheet 8	of 8	Attorney Docket Number	550270.91065

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
NK		Chapter 2, Piston Motion, Fundamentals of Automotive Engine Balance, W. THOMSON, 1978, pp. 7-13.	
		Internal-combustion engines, Bosch Automotive Handbook, 4th ed. 1996, pp.384-389.	
		"A Ricardo-designed Two-cylinder Engine," The Motor, May 20, 1924.	
		POPE, JR., A.W., "The C.U.E. Cooperative Universal Engine for Aviation Single-Cylinder Research", CSAE Journal (Transactions), January 1941, pp. 33-40.	
		"FEV 'Systemmotor' Research Engine," obtained at www.fev.com, printed March 17, 2003, 2 pgs.	
		Chapter 17, Piston-engine mechanics and balance, Combustion Engine Processes, Lichty, 1967, pp. 582-593.	
		The Internal Combustion Engine in Theory or Practice, Volume 2: Combustion, Fuels, Materials, Design, revised edition, Charles Fayette Taylor, 1985, pp. 244-251.	
		SHIGLEY, JOSEPH EDWARD; "Dynamic Analysis of Machines," New York, McGraw-Hill, 1961, pp. 534-551.	
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Examiner Signature	<i>Kamen</i>	Date Considered	10/29/03
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